

A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # RC-094

Sodium Chloride

Size: 1kg





# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Substance name : sodium chloride
EC-No. : 231-598-3
CAS-No. : 7647-14-5
Product code : 210S

Type of product : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in

dry state only

Formula : NaCl

Synonyms : AKZO,BROXO 6/15 / AXAL / BRINE / BROXO 6/15 / common salt / dendritis / evaporated /

extra fine 200 salt / extra fine 325 salt / halite / HG blending / iron-fighter salt / purex / purified brine / road salt / rock salt / saline / salt / sea salt / sodium chloride / sodium chloride (NaCl) / solar salt / solsel / sterling (=sodium chloride) / table salt / top flake / USP

sodiumchloride / vacuum salt, electrolysis quality / white crystal

Product group : Raw material BIG No : 10641

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Water treatment

Chemical raw material

Food industry: Preserving agent

Photographic chemical

Herbicide De-icer

Laboratory chemical

### 1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States

T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

# 1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

# Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

# 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Substance type : Mono-constituent

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Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	100	Not classified

#### 3.2. Mixtures

Not applicable

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Take victim to a doctor if irritation persists.

First-aid measures after eye contact : Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do

not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is

fully conscious: immediately induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : AFTER INHALATION OF DUST/MIST: Dry/sore throat. Coughing. Irritation of the nasal

mucous membranes.

Symptoms/effects after skin contact : No effects known.

Symptoms/effects after eye contact : Slight irritation. Redness of the eye tissue.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Nausea. Vomiting. Irritation of the

gastric/intestinal mucosa. Loss of appetite. Tremor. Muscular pain. Mental confusion.

Disturbances of consciousness.

Symptoms/effects upon intravenous administration : No effects known.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

Coughing. Conjunctivitis. Affection of the nasal septum. High arterial pressure.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Non combustible.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure

to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames.

Wash contaminated clothes

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors

and windows.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Knock down/dilute dust cloud with water spray.

Knock down/dilute dust cloud with water spray.

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Methods for cleaning up : Prevent dust cloud formation. Scoop solid spill into closing containers. Clean contaminated

surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site

### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

: Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Thoroughly clean/dry the installation before use. Keep container tightly closed.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in a well-ventilated place. Keep cool.

Storage temperature : ambient temperature

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. metals. water/moisture.

: Store in a dry area. Meet the legal requirements. Storage area

Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the

legal requirements. Secure fragile packagings in solid containers.

: SUITABLE MATERIAL: copper. nickel. HDPE. polypropylene. Teflon. PVC. Packaging materials

# 7.3. Specific end use(s)

8.1. Control parameters

No additional information available

# **SECTION 8: Exposure controls/personal protection**


sodium chloride (7647-14-5)			
DNEL/DMEL (Workers)			
Acute - systemic effects, dermal	295.52 mg/kg bw/day		
Acute - systemic effects, inhalation	2068.62 mg/m³		
Long-term - systemic effects, dermal	295.52 mg/kg bw/day		
Long-term - systemic effects, inhalation	2068.62 mg/m³		
DNEL/DMEL (General population)			
Acute - systemic effects, dermal	126.65 mg/kg bw/day		
Acute - systemic effects, inhalation	443.28 mg/m³		
Acute - systemic effects, oral	126.65 mg/kg bw/day		
Long-term - systemic effects,oral	126.65 mg/kg bw/day		
Long-term - systemic effects, inhalation	443.28 mg/m³		
Long-term - systemic effects, dermal	126.65 mg/kg bw/day		
PNEC (Water)			
PNEC aqua (freshwater)	5 mg/l		
PNEC (Soil)			
PNEC soil	4.86 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	500 mg/l		

# 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials	for protective	cloth	ing:
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GIVE GOOD RESISTANCE: butyl rubber. natural rubber. neoprene. nitrile rubber. PVC

### Hand protection:

Gloves

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# Eye protection:

Safety glasses. In case of dust production: protective goggles

### Skin and body protection:

Protective clothing

#### Respiratory protection:

Dust production: dust mask with filter type P1

### **Environmental exposure controls:**

Avoid release to the environment

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder. Grains.

Molecular mass : 58.44 g/mol

Colour : Colourless to white.

Odour Codour threshold : Odourless.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : 801 °C (1013 hPa) Freezing point : Not applicable

Boiling point : No data available
Flash point : Not applicable (solid)
Auto-ignition temperature : Not applicable
Decomposition temperature : > 804 °C
Flammability (solid, gas) : Non flammable.
Vapour pressure : Not applicable

Relative vapour density at 20 °C : Not applicable
Relative density : Not applicable
Density : 2160 kg/m³ (25 °C)

Solubility : Soluble in water. Soluble in formic acid. Soluble in glycerol. Soluble in ethyleneglycol.

Water: 31.7 g/100ml (20 °C)

Log Pow : -3 (Calculated)
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

9.2. Other information

VOC content : Not applicable (inorganic)

Other properties : Hygroscopic.

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Hazardous decomposition products.

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SECTION 11: Toxicological information				
11.1. Information on toxicological effects Acute toxicity (oral)	: Not classified			
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	: Not classified			
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sodium chloride (7647-14-5)				
LD50 oral rat	> 3980 mg/kg bodyweight (Rat, Experimental value, 20% aqueous solution, Oral)			
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)			
LC50 inhalation rat (mg/l)	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20% aqueous solution, Inhalation (aerosol))			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified			
Aspiration hazard	: Not classified			
Potential adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg). Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). Not irritant to skin. Slightly harmful by inhalation. Slightly irritant to eyes.			
SECTION 12: Ecological information				
12.1. Toxicity				
	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.			
Ecology - air	: Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).			

Ecology - water	: Not harmful to crustacea. Not harmful to fishes. Not harmful to aquatic plants. Not harmful
	to algae.

Acute aquatic toxicity :	Not classified			
Chronic aquatic toxicity :	Not classified			
sodium chloride (7647-14-5)				
LC50 fish 1	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)			
12.2. Persistence and degradability				
sodium chloride (7647-14-5)				
Persistence and degradability	Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
BOD (% of ThOD)	Not applicable			
12.3. Bioaccumulative potential				
sodium chloride (7647-14-5)				
Log Pow	-3 (Calculated)			
Bioaccumulative potential	Not bioaccumulative.			
12.4. Mobility in soil				
sodium chloride (7647-14-5)				
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)			
Ecology - soil	No (test)data on mobility of the substance available.			

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# 12.5. Results of PBT and vPvB assessment

### sodium chloride (7647-14-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods

: Waste treatment methods.

Product/Packaging disposal recommendations

: Treat using the best available techniques before discharge into drains or the aquatic environment. Remove waste in accordance with local and/or national regulations. Recycle/reuse.

Additional information

: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code

: 15 01 02 - plastic packaging 15 01 04 - metallic packaging

06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

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UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

# 14.3. Transport hazard class(es)

### **ADR**

Transport hazard class(es) (ADR) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No

Other information : No supplementary information available

# 14.6. Special precautions for user

### Overland transport

Transport regulations (ADR) : Not subject

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Transport by sea

Transport regulations (IMDG) : Not subject

Air transport

Transport regulations (IATA) : Not subject

Inland waterway transport

Transport regulations (ADN) : Not subject

Rail transport

Transport regulations (RID) : Not subject

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

sodium chloride is not on the REACH Candidate List

sodium chloride is not on the REACH Annex XIV List

sodium chloride is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

sodium chloride is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content : Not applicable (inorganic)

### 15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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